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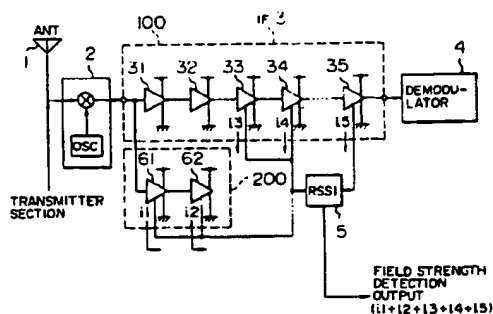
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(54) Radio communication apparatus with circuit for field strength determination

(57) Part of a first signal path (100) for amplifying a signal includes circuits (33b, 34b) for detecting a signal, and a second signal path (200) connected to an input portion of the first signal path includes circuits (61b, 62b) for detecting the signal. A signal strength detector circuit (5) adds outputs from the respective detector circuits in the first and second signal paths. The first signal path has a function of expanding the dynamic range in a

smaller signal region as compared with the second signal path, while the second signal path has a function of expanding the dynamic range in a larger signal region as compared with the first signal path. When a radio transmitted output is variably controlled in a radio transmitter section (TX) based on a field strength detection output for a received signal, the transmitted output is optimized, resulting in minimizing consumed power and unnecessary radiation of radio waves.

FIG. 3



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IntCl.6)
X	EP 0 343 569 A (NOKIA MOBIRA OY) 29 November 1989	1,2,8, 12,13	H04B17/00 H04B7/005
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A		3,5,11, 16	
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Y	* abstract; claim 1 *	1,2,6, 14,15,18	
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	* column 7, line 30 - line 49; figures 1,2 *		
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	* column 6, line 5 - line 12; figure 2 *		
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 9 September 1998	Examiner Harris, E
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons S : member of the same patent family, corresponding document</p>			

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Application Number
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A	<p>EP 0 248 428 A (NIPPON ELECTRIC CO) 9 December 1987</p> <p>* abstract *</p> <p>* page 2, line 4-12 *</p> <p>* page 8, line 52 - line 57 *</p> <p>* page 9, line 31 - line 33 *</p> <p>* page 10, line 34 - line 35; figure 9 *</p> <p>-----</p>	3,10,16,17	
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